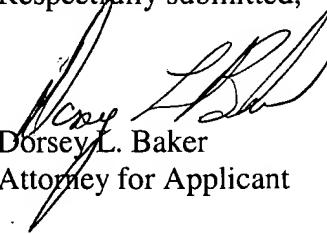


A marked up copy of the amended claims is attached to reflect the changes in the claims. In addition, a third "Information Disclosure Statement" is being submitted with this amendment to include the most recently known publication of the SPIE entitled "Precision Agriculture and Biological Quality." Finally, a fee determination record together with a check in the amount of \$243.00 to cover the additional filing fee for the additional claims presented here.

Respectfully submitted,


Dorsey L. Baker
Attorney for Applicant

RECEIVED
JUN -3 2002
TECHNOLOGY CENTER 2800

Amended claim version with markings to show changes made.

1 6. (Amended). The method as recited in claim 5 in which the spectral distribution is
2 transmitted in analog state. (includes the step of visually depicting the spectral distribution).

1 7. (Amended). The method recited in Claim 6 in which the spectral distribution is first
2 converted to digital information prior to transmitting (includes the step of receiving and
3 converting the electronic signals into digital information for storage, comparison or analysis
4 of the object and its condition).

1 25. (Amended). A method for comparing selected objects, said method comprising
2 the steps of:

3 a) obtaining a spectral distribution of reflected light segments from at a representative
4 of a sample species of a population;

5 b) sequentially generating a spectral distribution of additional species of a population;

6 c) comparing said spectral distribution of the additional species with the distribution
7 of said representative and producing an output signal reflecting the results of the step of
8 comparing said distributions. (when said distributions are substantially similar).

1 28. (Amended). A low cost apparatus for selectively identifying objects, including
2 fluids and tissue, and their condition, from within a population; said apparatus comprising:

3 a) a sensing device for receiving reflected light from objects of a population, said
4 device including a lens diffraction device for separating the reflected light into a plurality of

5 segments of wavelengths and for directing said segments upon an array for measuring the
6 magnitude of the segments of reflected light to define a spectral distribution;

7 b) a digital identifier connected to said sensing device and having a memory for
8 receiving and storing a spectral distribution of light representing a sample object from said
9 population;

10 c) said digital identifier also having a memory for receiving and storing sequential
11 spectral distributions from various objects of the population;

12 d) said digital identifier having logic circuitry programmed to compare the subsequent
13 spectral distribution with the memorized spectral distribution and to provide an output
14 indicating the results of the comparison of the (similarity between) the distributions.